

A WIRELESS SPREAD SPECTRUM COMMUNICATION PLATFORM USING DYNAMICALLY RECONFIGURABLE LOGIC

ABSTRACT OF THE DISCLOSURE

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A wireless spread spectrum communication platform for processing a communication signal is disclosed herein. The wireless communication platform includes a first computing element, a second computing element, and a reconfigurable interconnect. The first computing element is coupled to the second computing element via the reconfigurable interconnect. A design configuration of the first computing element is heterogeneous with respect to a design configuration of the second computing element. The reconfigurable interconnect has an uncommitted architecture, thereby allowing it to be configured by an outside source to couple portions of the first reconfigurable interconnect with portions of the second reconfigurable interconnect in a variety of combinations. The first computing element, the second computing element, and the reconfigurable interconnect operable to perform discrete functions suitable for processing of the communication signal.

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